BRUHAT BANGALORE MAHANAGARA PALIKE
YALAHANKA ZONE ELECTRICAL DIVISION

Office of the Executive Engineer
Electrical Division, Yelahanka Zone
Bruhath Bengaluru Mahanagara Palike

"SCHEDULE B"

Name of the Work:- Detailed Sub estimate for Providing Electrification and Fixtures to Shadimahal Jakkur Layout in Ward No 07.

Sl No	Qty	Description Of Work	Unit	Approved Rates	
				In figures	In words
1	250	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick	Mtrs	57.00	Rupees Fifty Seven Only
2	150	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick	Mtrs	58.00	Rupees Fifty Eight Only
3	25	Supplying And Fixing Metal Fan Box with Round Hook.	No	92.00	Rupees Ninety Two Only
4	6	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3Way	Nos	91.00	Rupees Ninety One Only
5	3	6 Way	Nos	121.00	Rupees One Hundred Twenty One Only
6	3	8 Way	Nos	140.00	Rupees One Hundred Forty Only
7	3	10-12 Way	Nos	159.00	Rupees One Hundred Fifty Nine Only
8	8	16Way	Each	172.00	Rupees One Hundred Seventy Two Only
9	6	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 3 Module	Nos	109.00	Rupees One Hundred Nine Only
10	3	6 Module	Nos	173.00	Rupees One Hundred Seventy Three Only
11	3	8 Module	Nos	200.00	Rupees Two Hundred Only
12	11	12 to16 Module	Nos	267.00	Rupees Two Hundred Sixty Seven Only

13	63	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 6Amps one way switch.	Nos	63.00	Rupees Six[illegible] Three Only
14	20	6Amps 3way socket.	Nos	95.00	Rupees N[illegible]ety Five Only
15	20	Stepped Fan Regulator.	Nos	286.00	Rupees Two Hundred Eighty Six Only
16	10	16Amps one way switch	Nos	114.00	Rupees One Hundred Fourteen Only
17	10	6/16Amps universal socket	Nos	147.00	Rupees One Hundred Forty Seven Only
18	25	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps.	Nos	88.00	Rupees Eighty Eight Only
19	350	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B.1.5 sqmm	Mtrs	15.90	Rupees Fifteen And Paise Ninety Only
20	250	2.5 sqmm	Mtr.	24.90	Rupees Twenty Four And Paise Ninety Only
21	250	4 sqmm	Mtr.	36.30	Rupees Thirty Six And Paise Thirty Only
22	25	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size .....mm conduit using necessary machine screws.80mm	Nos	9.00	Rupees Nine Only
23	8	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.GROUP BShort point upto 3Mtr from tapping point to out let via switch box	Points	130.00	Rupees One Hundred Thirty Only
24	25	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point	190.00	Rupees One Hundred Ninety Only
25	35	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point	291.00	Rupees Two Hundred Ninety One Only
26	1	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door 08Way SP &N	Nos	1299.00	Rupees One Thousand Two Hundred Ninety Nine Only
27	1	12Way SP &N	Nos	1622.00	Rupees One Thousand Six Hundred Twenty Two Only
28	2	40-63Amps TPN	Nos	1936.00	Rupees One Thousand Nine Hundred Thirty Six Only

29	4	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP	Nos	418.00	Rupees Four Hundred Eighteen Only
30	6	5-32 Amps DP		849.00	Rupees Eight Hundred Forty Nine Only
31	12	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 watts		1774.00	Rupees One Thousand Seven Hundred Seventy Four Only
32	1	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.12" Sweep (300mm)	No	3654.00	Rupees Three Thousand Six Hundred Fifty Four Only
33	15	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model	Nos	2376.00	Rupees Two Thousand Three Hundred Seventy Six Only
34	24	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Nos	98.00	Rupees Ninety Eight Only
35	15	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each	139.00	Rupees One Hundred Thirty Nine Only
36	35	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 35 sqmm	Mtrs	204.00	Rupees Two Hundred Four Only
37	35	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure. 25 sqmm to 75 sqmm	Mtrs	16.20	Rupees Sixteen And Paise Twenty Only
38	6	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	345.00	Rupees Three Hundred Forty Five Only
39	1	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	Nos	362.00	Rupees Three Hundred Sixty Two Only
40	40800	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcms	0.33	Rupees And Paise Thirty Three Only

41	2	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	No	4317.00	Rupees Four Thousand Three Hundred Seventeen Only
42	3	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with .....W System	Nos	31250.00	Rupees Thirty One Thousand Two Hundred Fifty Only
43	3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	234.00	Rupees Two Hundred Thirty Four Only
44	0.50	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.100Amps 4x30x6mm Aluminum Strips	Mtrs	2135.00	Rupees Two Thousand One Hundred Thirty Five Only
45	24	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED light fighting 4' - 28 watts	Nos	1774.00	Rupees One Thousand Seven Hundred Seventy Four Only

I am prepared to take up the above work at rates quoted in the Schedule 'B'

Contractor

EXECUTIVE ENGINEER (ELEC)
BBMP, Yelahanka Zone